RECEIVED CENTRAL FAX CENTER

OCT 26 2006

Amendments to the Claims

- 1. (Previously presented) A journal bearing system comprising:
 - a bushing; and
- a journal pin within the bushing and rotatable relative to the bushing about a longitudinal axis,

wherein at least one of the bushing and journal pin has an engagement surface with an engagement length comprising a base material and a solid lubricant, a concentration of the solid lubricant varying longitudinally along the engagement length.

- (Original) The system of claim 1 wherein:
 the concentration is higher near ends of the engagement length than in an intermediate portion.
- (Original) The system of claim 1 wherein:
 the concentration varies by at least 50% of a maximum value along said engagement length.
- 4. (Previously presented) The system of claim 1 wherein: the base material comprises a coating applied to a substrate of said at least one of the bushing and journal pin.
- (Previously presented) The system of claim 1 wherein: the base material comprises a copper-based material; and the solid lubricant comprises a metal.
- (Original) The system of claim 5 wherein:
 the solid lubricant metal comprises lead.
- 7. (Original) The system of claim 6 wherein the concentration is: greater than 30% at first and second locations near first and second ends of the

engagement length; and

10-30% in an third location, between the first and second locations.

- (Original) The system of claim 6 wherein the concentration is:
 greater than 35% at first and second locations within first and second terminal 20% of the engagement length; and
 - 10-30% over a majority of a central 50% of the length.
- 9. (Original) The system of claim 1 supporting a gear in a turbofan transmission.
- 10. (Previously presented) A hydrodynamic bearing apparatus comprising:
 a bushing;
 a journal pin rotatable relative to the bushing about a longitudinal axis; and
 means for providing extended operation after a lubricant loss.
- (Original) The apparatus of claim 10 wherein:
 the means comprise a longitudinally-varying lead concentration within a copper matrix.
- 12. (Canceled)
- 13. (Canceled)
- 14. (Canceled)
- 15. (Previously presented) The system of claim 1 wherein the journal pin has at least one lubrication passageway.
- 16. (Previously presented) The system of claim 15 wherein the at least one lubrication passageway extends to the engagement surface.

- 17. (Previously presented) The system of claim 5 wherein the journal pin has at least one lubrication passageway.
- 18. (Previously presented) The system of claim 17 wherein the at least one lubrication passageway extends to the engagement surface.
- 19. (Previously presented) The system of claim 7 wherein the journal pin has at least one lubrication passageway.
- 20. (Previously presented) The system of claim 19 wherein the at least one lubrication passageway extends to the engagement surface.
- 21. (Previously presented) The apparatus of claim 10 wherein the journal pin has at least one lubrication passageway.
 - 22. (Previously presented) The apparatus of claim 10 wherein the means is on the bushing and the bushing is formed by a coating comprising substrate material and solid lubricant on an interior cylindrical surface of a steel gear in a geared turbofan transmission.
- 23. (Previously presented) The apparatus of claim 10 wherein the means comprises a coating of the bushing and the bushing is a gear in a geared turbofan transmission.
- (Previously presented) A hydrodynamic bearing apparatus comprising:
 a bushing;
 - a journal pin rotatable relative to the bushing about a longitudinal axis;
- at least one port in at least one of the bushing and journal pin for introducing a liquid lubricant; and
- a solid lubricant within a matrix on at least one of the bushing and journal pin, a distribution of said solid lubricant forming means for providing extended operation after a loss of said liquid lubricant.

25. (New) The system of claim 9 wherein the transmission is liquid-lubricated and the solid lubricant concentration provides extended operation after a loss of liquid lubricant.